



BOURNS®

Features

- Eight and four positions available
- Gold plated contacts offer high reliability
- Low contact resistance
- Just 1.5 mm total height
- Half pitch of 1.27 mm (.050 in.)
- RoHS compliant*



The SDHH Series is currently available, although not recommended for new designs.

SDHH Series Half Pitch SMD DIP Switch

Electrical Characteristics

Electrical Life 1,000 operation cycles per switch min.
 Non-Switching Rating .. 100 mA, 50 VDC
 Switching Rating 25 mA, 24 VDC
 Contact Resistance 100 mohms max.
 Insulation Resistance ... 100 Mohms min., DC 500 V min.

Dielectric Strength AC 300 V for 1 minute
 Capacitance 5 pF max.
 between adjacent closed switch
 Circuit Single pole single throw

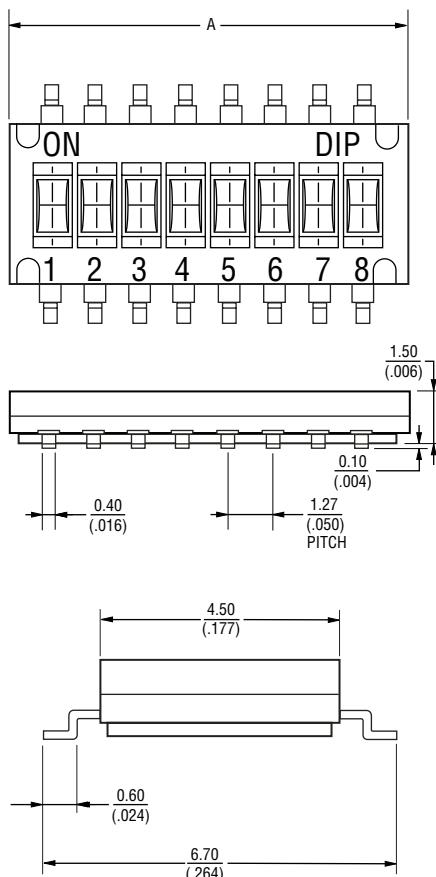
Environmental Characteristics

Mechanical Life 1,000 operations per switch min.
 Operation Force 500 g max.
 Stroke 0.6 mm
 Operating Temp. Range -40 °C to +85 °C
 Storage Temperature ... -40 °C to +85 °C
 Vibration Test MIL-STD-202F, Method 201A
 Frequency 10-50-10 Hz/1 minute
 Directions X, Y, Z, three mutually perpendicular directions
 Time 2 hours each direction, high reliability
 Shock Test MIL-STD-202F, Method 213B, Condition A
 Gravity 50 G (peak value), 11 msec
 Direction & Times 6 sides and 3 times in each direction. High reliability

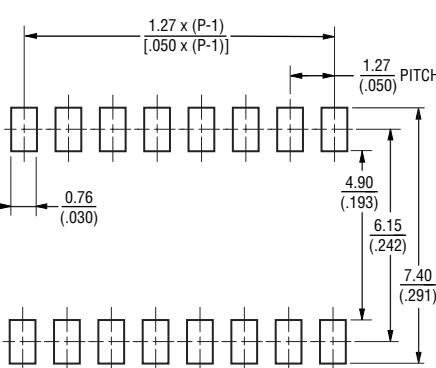
Physical Characteristics

Cover Materials Thermoplastic Nylon, UL94V-0; black
 Base Materials Thermoplastic Nylon, UL94V-0; black
 Actuator Materials Thermoplastic LCP, UL94V-0; white
 Contact Materials Alloy Copper
 Contact Plating 3 Micro inches gold over 40 micro inches nickel
 Terminal Materials Brass with Gold plating
 Reflow Soldering Peak temperature or reflow oven should be set to 240 °C max. 2 sec. while applying solder
 Packaging All poles in the "off" position

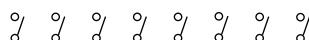
Product Dimensions



Recommended PCB Layout



Circuit Diagram



SDHH Series Dimensions

MODEL NO.	POS.	DIM. A	DIM. B
SDHH-4	4	6.31 (.248)	3.81 (.15)
SDHH-8	8	11.39 (.448)	8.89 (.35)

How to Order

SDH H - 8 - T R

Model _____

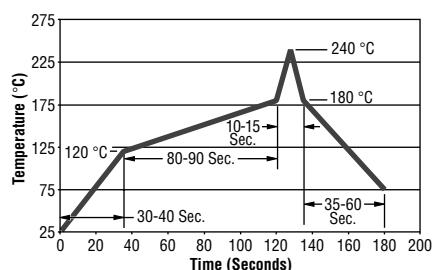
Actuator
 H = Recessed

Number of positions
 4 = 4 positions
 8 = 8 positions

Seal
 T = Top tap sealed (standard)

Packaging
 R = Tape and reel

Reflow Soldering Profile



DIMENSIONS ARE: MM
 (INCHES)

TOLERANCES: ±.2 EXCEPT WHERE NOTED.

SDHH Series Half Pitch SMD DIP Switch

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Packaging Specifications

